IN THE CLAIMS:

Please AMEND claims 1, 6, 13, 21, 25, 26, 29 and 31 in accordance with the following:

1. (CURRENTLY AMENDED) A method of preventing a disc from being scratched by an objective lens, the method comprising:

performing a focus pull-in operation in which the objective lens is moved toward and away from a surface of the disc; and

moving the objective lens away form the disc if a level of a pull-in signal, generated during the focus pull-in operation to reflect a distance between the objective lens and the disc, remains lower than a predetermined critical level for at least a predetermined critical period of time, controlling the objective lens so as to move away from the disc.

- 2. (ORIGINAL) The method of claim 1, wherein the predetermined critical period of time is set to a time for which the objective lens remains a minimum distance from the disc without damaging the disc when an actuator actuating a pickup moves at an operational maximum speed.
- (ORIGINAL) The method of claim 1, wherein the controlling the objective lens comprises applying a direct current signal to the actuator for actuating a pickup having the objective lens.
- 4. (ORIGINAL) The method of claim 3, wherein the direct current signal is applied to stop the actuator.
- 5. (ORIGINAL) The method of claim 1, wherein the pull-in signal is one of a sum signal of signals focused onto a plurality of division light-receiving units of a photodiode and a signal generated by filtering a sum signal through a low-pass filter.
- 6. (CURRENTLY AMENDED) A method of preventing a disc from being scratched by an objective lens, the method comprising:

initializing a pull-in signal, a level of which reflects a distance between the objective lens and a surface of the disc;

performing a focus pull-in operation in which the objective lens is moved toward and away from a surface of the disc;

checking athe level of the pull-in signal;

if the level of the pull-in signal is lower than a predetermined critical level, checking a time for which the level of the pull-in signal remains lower than the predetermined critical level; and

moving the objective lens away from the disc if the time is at least a predetermined critical period of time, controlling a pickup having the objective lens to move away from the disc.

7. (ORIGINAL) The method of claim 6, further comprising:

if the time is not at least the predetermined critical period of time, outputting an average value of a drive signal that was previously applied to the actuator for actuating a pickup having the objective lens.

- 8. (ORIGINAL) The method of claim 6, wherein the initializing of the pull-in signal comprises initializing the pull-in signal to a level lower than a predetermined direct current level so as to easily detect the predetermined direct current level during the focus pull-in operation.
- 9. (ORIGINAL) The method of claim 6, wherein, the predetermined critical period of time is set to a time for which the objective lens remains a minimum distance from the disc without damaging the disc when the actuator moves at an operational maximum speed.
- 10. (ORIGINAL) The method of claim 6, wherein, if the time is at least predetermined critical period of time, applying a direct current signal to the actuator.
- 11. (ORIGINAL) The method of claim 10, wherein the direct current signal is applied to stop the actuator.
- 12. (ORIGINAL) The method of claim 6, wherein the pull-in signal is one of a sum signal of signals focused onto a plurality of division light receiving units of a photodiode and a signal generated by filtering a sum signal through a low-pass filter.
- 13. (CURRENTLY AMENDED) An apparatus preventing a disc from being scratched by an objective lens, the apparatus comprising:

a pickup having an objective lens;

an actuator actuating the pickup;

a signal detector detecting a pull-in signal from the pickup a level of which reflects a distance between the objective lens and a surface of the disc; and

a controlling unit that <u>moves the objective lens away from the disc</u> if a<u>the</u> level of the pullin signal is maintained lower than a predetermined critical level for at least a predetermined critical period of time, <u>controls the actuator so that the objective lens moves away from the disc</u>.

- 14. (ORIGINAL) The apparatus of claim 13, wherein the predetermined critical period of time is set to a time for which the objective lens remains a minimum distance from the disc without damaging the disc when the actuator moves at an operational maximum speed.
- 15. (ORIGINAL) The apparatus of claim 13, wherein the controlling unit applies a direct current signal to the actuator.
- 16. (ORIGINAL) The apparatus of claim 13, wherein the controlling unit applies a direct current signal to the actuator so as to stop the actuator.
- 17. (ORIGINAL) The apparatus of claim 13, wherein the pull-in signal is one of a sum signal of signals focused onto a plurality of division light receiving units of a photodiode and a signal generated by filtering a sum signal through a low-pass filter.
- 18. (ORIGINAL) The method according to claim 1, wherein the predetermined critical level is set to a value measured at a level for which an objective lens in a pickup should not contact a disc when the pickup moves toward the disc during focus control due to a disturbance.
- 19. (ORIGINAL) The method according to claim 6, wherein the predetermined critical level is set to a value measured at a level for which an objective lens in a pickup should not contact a disc when the pickup moves toward the disc during focus control due to a disturbance.
- 20. (ORIGINAL) The apparatus according to claim 13, wherein the predetermined critical level is set to a value measured at a level for which the objective lens in the pickup should not contact the disc when the pickup moves toward the disc during focus control due to a disturbance.

21. (CURRENTLY AMENDED) A computer readable medium encoded with processing instructions implementing a method of preventing a disc from being scratched by an objective lens, the method comprising:

performing a focus pull-in operation in which the objective lens is moved toward and away from a surface of the disc; and

moving the objective lens away form the disc if a level of a pull-in signal, generated during the focus pull-in operation to reflect a distance between the objective lens and the disc, remains lower than a predetermined critical level for at least a predetermined critical period of timeperforming a focus pull-in operation; and

controlling the objective lens so as to move away from the disc if a level of a pull-in signal remains lower than a predetermined critical level for a predetermined critical period of time or more.

- 22. (ORIGINAL) The computer readable medium of claim 21, wherein the predetermined critical period of time is set to a time for which the objective lens remains a minimum distance from the disc without damaging the disc when an actuator actuating the pickup moves at an operational maximum speed.
- 23. (ORIGINAL) The computer readable medium of claim 21, wherein a direct current signal is applied to the actuator for actuating a pickup having the objective lens.
- 24. (ORIGINAL) The computer readable medium of claim 21, wherein the pull-in signal is one of a sum signal of signals focused onto a plurality of division light receiving units of a photodiode and a signal generated by filtering a sum signal through a low-pass filter so as to remove a high frequency component.
- 25. (CURRENTLY AMENDED) A computer readable medium encoded with processing instructions implementing a method of preventing a disc from being scratched by an objective lens, the method comprising:

initializing a pull-in signal, a level of which reflects a distance between the objective lens and a surface of the disc;

performing a focus pull-in operation in which the objective lens is moved toward and

away from a surface of the disc;

checking the level of the pull-in signal;

if the level of the pull-in signal is lower than a predetermined critical level, checking a time for which the level of the pull-in signal remains lower than the predetermined critical level; and

moving the objective lens away from the disc if the time is at least a predetermined critical period of timeinitializing a pull in signal;

performing a focus pull-in;

checking a level of the pull-in signal;

checking a time for which the level of the pull-in signal remains lower than the predetermined critical level if the level of the pull-in signal is lower than a predetermined critical level; and

controlling a pickup having the objective lens so as to move away from the disc if the time is at least a predetermined critical period of time.

- 26. (CURRENTLY AMENDED) An apparatus preventing a disc from being scratched by an objective lens, the apparatus comprising:
 - a pickup;
 - an actuator actuating the pickup;
- a signal detector detecting a pull-in signal from the pickup a level of which reflects a distance between the objective lens and a surface of the disc; and
- a controller checking the levels of a detected the pull-in signal and outputting a control signal, if a level of the pull-in signal remains lower than a predetermined critical level for at least a predetermined critical period of time; and
 - a drive moving the pickup based on the control signal.
 - 27. (ORIGINAL) The apparatus of claim 26, the pickup comprising:
 - a laser diode radiating a beam of light;
 - a collimating lens focusing the beam of light into a parallel beam of light;
 - an objective lens focusing the parallel beam onto the disc;
- a beam splitter splitting the beam of light into an incident beam of light and a reflected beam of light and changing the path of the reflected beam of light; and a photodiode receiving the reflected beam of light.

- 28. (ORIGINAL) The apparatus of claim 27, the laser diode having a NA of at least 0.7, and a wavelength of 500nm or less.
- 29. (CURRENTLY AMENDED) A method of controlling a movement of a pickup, comprising:

radiating a laser beam from the pickup;

focusing the laser beam onto a surface of a reflective disc;

receiving a reflected beam of light from the disc with a plurality of light—receiving units; generating a focus pull-in signal and a focus error signal based on the received light, a level of the focus pull-in signal reflecting a distance between the pickup and the surface of the reflective disc;

checking athe level of the generated focus pull-in signal and focus error signals; and generating a current based on the level of the signals so as to move the pickup, if a level of the checked pull-in signal remains lower than a predetermined critical level for at least a predetermined critical period of time.

- 30. (ORIGINAL) The method of controlling a movement of a pickup of claim 28, wherein checking a level includes checking when the focus pull-in signal drops to an initial level for a predetermined period of time.
- 31. (CURRENTLY AMENDED) A method of controlling a movement of a pickup, comprising:

setting an initial value of a pickup pull-in signal a level of which reflects a distance between the pickup and a disc;

focusing a laser beam from the pickup onto the a disc based on an initial value of the pull-ing signal;

checking athe level of the pull-in signal; and

outputting a drive signal for the pickup based on the level of the pull-in signal to move the pickup away from the disc, if the level of the pull-in signal remains lower than a predetermined critical level for at least a predetermined critical period of time.

32. (ORIGINAL) The method of controlling a movement of a pickup as claimed in

claim 31, wherein checking a level of the pull-in signal includes checking whether the pull-in signal is lower than a predetermined level for at least a predetermined critical period of time.